



04-08-03  
In the United States Patent and Trademark Office

CPA/2800  
7/RCE/1A  
18/10/02  
4-18-03

Serial Number: 09/893,952  
Appn. Filed: 2001 JUNE 28  
Applicant(s): CHARLES VANN  
Appn. Title: ORIENTATION AND POSITION SENSOR  
Examiner/GAU: HIEN X. VO

Check if duplicate sheet ☐

Mailed: 2003 APRIL 7  
At: BURLINGAME, CA

### Request for Continuing Prosecution Application

Box CPA  
Assistant Commissioner for Patents  
Washington, District of Columbia 20231

Sir:

This is request, in duplicate, for filing a ☒ continuation ☐ division application under Rule 53(d) of the above prior application, which is to be abandoned.

☒ A Preliminary Amendment is enclosed.

☐ Please enter the amendment under Rule 116 in the prior application.

Fee: ☒ Basic utility small-entity filing fee: \$ 370

☐ Independent claim(s)\* over 3: \_\_\_\_\_ @ \$ \_\_\_\_\_ = \$ \_\_\_\_\_

☐ Total claim(s)\* over 20: \_\_\_\_\_ @ \$ \_\_\_\_\_ = \$ \_\_\_\_\_

Total Fee Enclosed: = \$ 370

☒ A small entity declaration was filed in the prior application and such status is still proper and desired.

(\*After entry of any enclosed Preliminary Amendment.)

☒ Also enclosed: Receipt Postcard: \_\_\_\_\_

Very respectfully,

Applicant(s): Charles J. Vann

Enc(s): Filing Fee; Receipt Postcard; Preliminary Amendment and other papers if indicated

c/o: \_\_\_\_\_

Tel.: \_\_\_\_\_

Express Mail Label #

EU26730708045

; Date of Deposit ~~199~~ 2003 APRIL 7

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Form 14-1



Application number: 09/893,952  
Application filed: 2001 June 28  
Applicant: Charles Vann  
Title: Orientation and Position Sensor  
Examiner: Hien X. Vo  
Date: April 5, 2003

copy

**Amendment Continuation**

Assistant Commissioner for Patents  
Washington, D.C. 20231

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TECHNOLOGY CENTER-2800

Sir:

In response to Advisory Action mailed March 2003, please amend the above application as follows: Claims are rewritten to replace claims 4-7 as follows:

8. A position and orientation sensor, comprising:

an alignment target having a first optical feature a fixed distance from  
a second optical feature;

an imaging device that can form an optical image of said alignment  
target with said first feature in focus and said second feature out  
of focus;

whereby the location and size of said first feature compared to the  
location and size of said second feature in said optical image are  
measurements of up to three orthogonal positions and up to three  
orthogonal orientations of said alignment target with respect to said imaging  
device.

9. The sensor of claim 1 wherein one or more of said features is a cross hair.
10. The sensor of claim 1 wherein said imaging device comprises a lens and a transparent projection screen.
11. The sensor of claim 1 wherein said imaging device is a camera.
12. The sensor of claim 1 further including a monitor connected to said imaging device.
13. The sensor of claim 1 further including a computer connected to said imaging device.

**Conditional request for constructive assistance**

If for any reason this application is not believed to be in full condition for allowance, applicant respectfully requests the constructive assistance and suggestions of the examiner pursuant to M.P.E.P. & 2173.02 and 707.07(j) in order that the undersigned can place this application in allowable condition as soon as possible and without the need for further proceedings.

Sincerely,



Charles S. Vann  
1425 Drake Avenue  
Burlingame, CA 94010  
Tel: (650) 375 1136 (home)